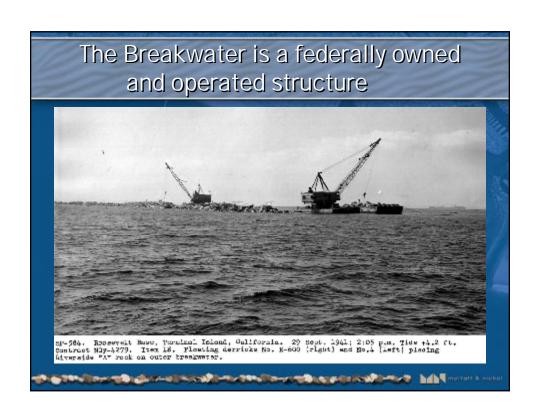
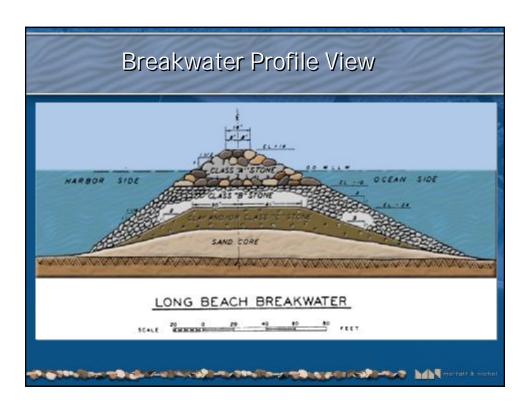


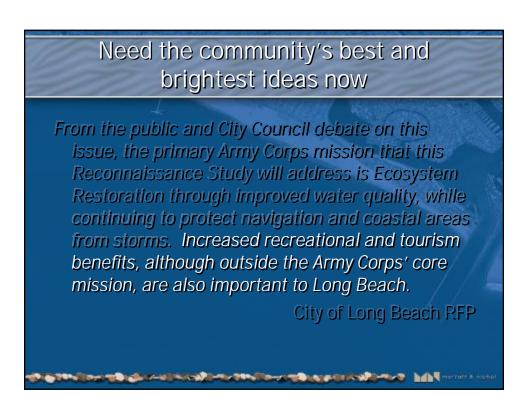
This study can help us answer these questions • Moffatt & Nichol • Kinnetics Laboratories, Inc. • Dr. Phil King • Clark Stevens









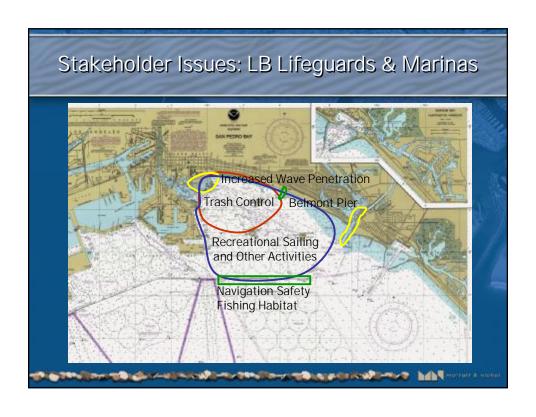


Local sponsors must also be aware of potential costs

- Fed is driving the bus since their breakwater
- City also has mission and goals
 - Improve water quality
 - Improved water-related recreation
 - Improve tourism
- Feasibility study is a 50-50 cost sharing arrangement with the Fed
- Locals responsible for 35% of construction costs

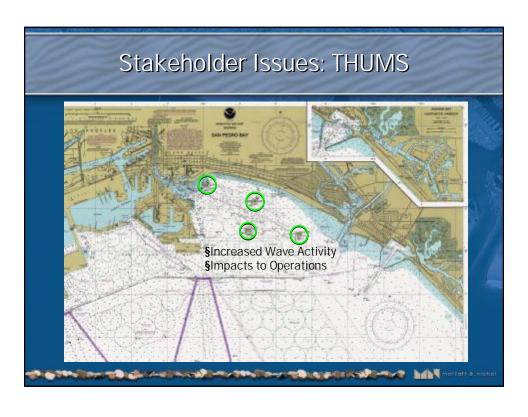
Stakeholder Issues: Surfrider Foundation

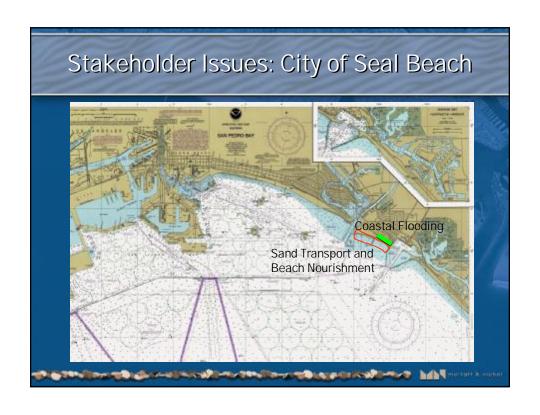
- Want beach like Seal, Huntington Beach, South Bay – the difference is waves
- Want to improve water quality and reduce trash and debris
- Want to improve sediment quality along the shoreline
- Want to consider reduced breakwater height and opportunities to plant kelp
- Want economic benefit of a cleaner beach

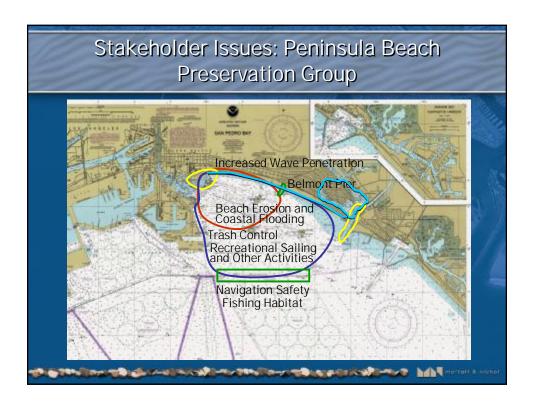


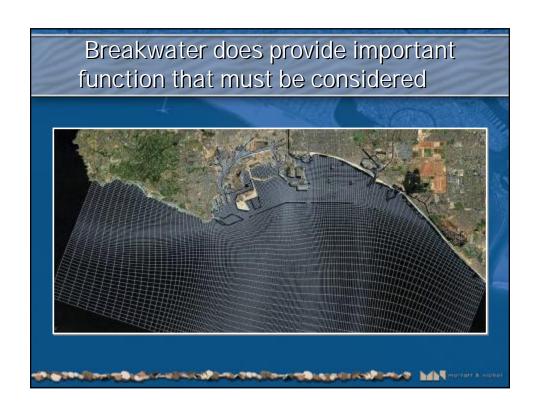


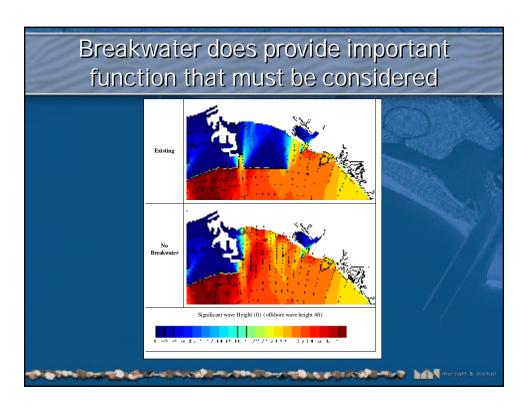






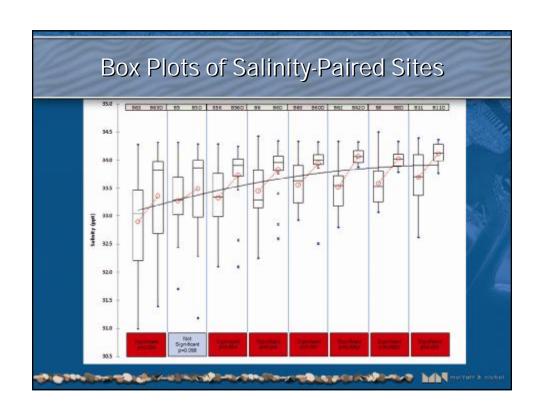


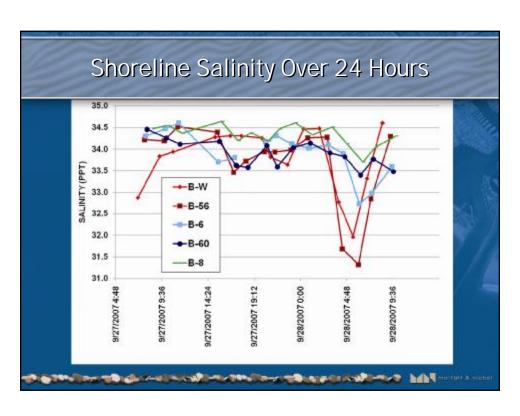


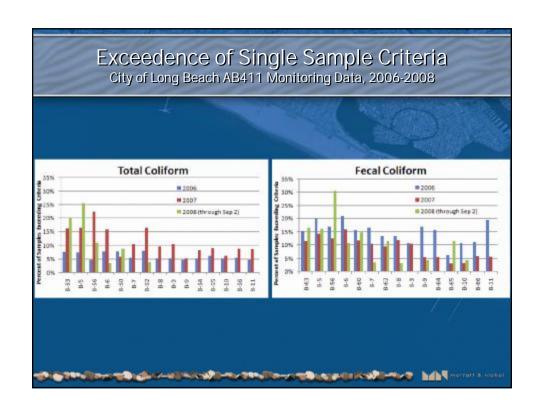






















COE Policy for Ecosystem Restoration

- Restore to Less-Degraded, More Natural Conditions
- · Full Integration with Social and Economic Goals
- Consider from Watershed Perspective
- Analyze both Monetary and Non-Monetary Benefits
- Coordination with Missions of Other Agencies

Is it feasible to reconfigure the Long Beach Breakwater?

- Restoration of nearshore to open coast habitat
- Improved transport of river sediments and contaminants away from the beach and nearshore habitat
- · Improved benthic habitat
- Increasing rocky shallow water habitat
- Reduction of bacterial water quality exceedences on the beach

Public Workshops Turning "input" into authorship Identify the diverse groups in the community Work with the City to identify strategy Three meeting format Separate locations Interest group meetings within each meeting Sequential meetings build on previous input

